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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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13.1	35.8	40.4	63.7	63.7	63.7	63.7	63.7	71.5	71.5	71.5	98.6		Query	مین
301	597	359	3582	2037	2426	2229	3112	1872	820	812	718		Query Match Length DB	
21	20	20	19	19	21	21	21	19	19	21	21	:	DB	
A06520	X37486	Z33445	V62430	V62427	A06689	A06688	A06687	V62428	V62429	A06690	A06545		ID	
Human immunogenic	Human secreted pro	Human prostate can	Prostate cancer an	Prostate cancer an	Human immunogenic	Human immunogenic	Human immunogenic	Prostate cancer an	Prostate cancer an	Human immunogenic	Human immunogenic		Description	

14-JUL-1998; 14-JUL-1998; 23-SEP-1998; 23-SEP-1998; 23-SEP-1999; 15-JAN-1999; 15-JAN-1999; 09-APR-1999;

98US-0115453. 98US-0116134. 98US-0159812. 98US-0159822. 99US-0232149. 99US-0232880. 99US-0288946.

14-JUL-1999; 27-JAN-2000.

99WO-US15838

WPI; 2000-171268/15.

Dillon

Harlocker

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(CORI-) CORIXA CORP. DC,

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X84338	N80859	289628	002830	V60751	T12174	T12173	X99598	T19178	Q80911	N80917	X20260	т31291	Z60617	X20248	X84331	T63493	Q23917	Q28936	Q24329	Q24330	Q28937	Q24331	Q24332	Q24333	Q24334	V52155	A05476	X83006	257850	X05230	N92768	V33791
Stealth virus nucl	Sequence of entire		cDNA to HIV-2 RNA.	HIV-1 strain YBF30	Partial pJG4-5-CDK	Partial pJG4-5-CDK	Nucleic acid seque	Human gene signatu	Plasmodium falcipa	Sequence of the 3'	Borrelia burgdorfe	Rat poly-immunoglo	DNA encoding the p	Borrelia burgdorfe	Stealth virus nucl			63	Mutant thermostabl	Mutant thermostabl	Encodes Taf DNA po						coccus	a l	_	HIV-2 genomic DNA	HIV-2 variant HIV-	Prostate cancer an

ALIGNMENTS

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RESULT
A06545
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                                                                                                                                             Human; prostate cancer; dlagnosis; tumour; gene therapy; detection;
immunogenic; cytostatic; vaccine; ss.
                                                                                                                                                                Human immunogenic prostate tumour protein cDNA sequence SEQ ID NO:313.
                                                                                                                                                                                          A06545;
                                                                                                                                                                                                      A06545 standard; cDNA; 718
                                                                                                                                 Homo sapiens
                                                                                                                                                                            13-JUN-2000 (first entry)
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New polypeptide useful for treating comprises an immunogenic portion of
and diagnosing prostate cancer prostate tumor protein -
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Inmunogenic portion of a prostate tumour protein (PTP). The polypeptides and polynucleotides encoding them have cytostatic activity and can be used in vaccines and in gene therapy. The polypeptides and polynucleotides encoding them, antigen presenting cells which express the polypeptides, antibodies against the polypeptides and vaccines comprising them can be used for inhibiting the development of prostate cancer in a patient. The polypeptides can be used to generate antibodies or anti-diotypic antibodies for passive immuno therapy. A portion of the polynucleotides encoding the polypeptides can be used as a probe or to modulate the expression of the polypeptides. A66241 to A66691 and Y82000 to Y82020 represent sequences used in the exemplification of the present invention present invention.

Sequence 718 BP; 222 Α; 145 ü 169 <u>ن</u> 172 T; 10 other;

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RESULT
A06690/c
                            The present invention describes isolated polypeptides, comprising an immunogenic portion of a prostate tumour protein (PTP). The polypeptides and polynucleotides encoding them have cytostatic activity and can be used in vaccines and in gene therapy. The polypeptides and polynucleotides encoding them, antigen presenting cells which express the polypeptides, antibodies against the polypeptides and vaccines comprising them can be used for inhibiting the development of prostate cancer in a patient. The polypeptides can be used to generate antibodies or anti-idiotypic antibodies for passive immuno therapy. A portion of the polypucleotides encoding the polypeptides can be used as a probe or to modulate the expression of the polypeptides. A06241 to A06691 and 782000 to 782020 represent sequences used in the exemplification of the process.
                                                                                                                                                                                             Claim 1; Page 262; 263pp;
                                                                                                                                                                                                                                                          WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; prostate cancer; diagnosis;
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23-SEP-1998;
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15-JAN-1999;
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98US-0116134.
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Sequence 812 B₽; 198 A; 189 Ç 169 G; 256 Η; 0 other;

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97.3%;
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      The present sequence represents the prostate cancer antigen (cDNA splice variant 3 sequence comprising of exons 1, 3, and of the PCA3 gene. The PCA3 cDNA splice variant 3 sequence,
                                                                                                                                                                                                                                                     V62429 standard;
                                   Claim
                                               New nucleic acid prevention and tr
                                                                                    Bussemakers MJG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               isolated from a human primary prostatic tumour tissue cDNA library, was found in approximately 65% of the cDNA clones isolated. The invention claims for PCA3 CDNA variants and the proteins they encode. The invention also claims for antibodies against PCA3 protein. The antibodies are claimed to be useful for detecting PCA3 protein in
                                                                                                                                                                                                                                                                                                        Sequence
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23-SEP-1998;
23-SEP-1998;
15-JAN-1999;
15-JAN-1999;
09-APR-1999;
The present invention describes isolated polypeptides, compimmunogenic portion of a prostate tumour protein (PTP). The and polynucleotides encoding them have cytostatic activity
                                                                                               Claim
                                                                                                                                New polypeptide useful for treating and diagnosing prostate cancer comprises an immunogenic portion of prostate tumor protein - \,
                                                                                                                                                                                                                                                         Dillon
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98US-0116134.

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23-SEP-1999;
15-JAN-1999;
15-JAN-1999;
09-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes isolated polypeptides, comprising an immunogenic portion of a prostate tumour protein (PTP). The polypeptides and polynucleotides encoding them have cytostatic activity and can be used in vaccines and in gene therapy. The polypeptides and polynucleotides encoding them, antigen presenting cells which express the polypeptides, antibodies against the polypeptides and vaccines comprising them can be used for inhibiting the development of prostate cancer in a patient. The polypeptides can be used to generate antibodies or anti-idiotypic antibodies for passive immuno therapy. A portion of the polynucleotides encoding the polypeptides can be used as a probe or to modulate the expression of the polypeptides. A06241 to A06691 and v82000 to v82020 represent sequences used in the exemplification of the present invention.
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14-JUL-1998;
23-SEP-1998;
23-SEP-1998;
15-JAN-1999;
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                                                                                    other;
                          Indels
                                                                                                                                                                                                                                                                                                             prostate cancer
protein -
                                                Length
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                                                  2426;
                         6;
                         Gaps
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                                                  09-APR-1998;
                                                                                                                polyA_signal
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                (DIAG-) DIAGNOCURE INC
                                 10-APR-1997;
                                                                     15-0CT-1998
                                                                                                                                                                      Homo sapiens
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                                                                                                                                                                                                                                                      V62427;
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                                                                                     NO9845420-A1
                                                                                                                                                                                                                Prostate cancer antigen (PCA3) cDNA splice variant 1.
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                                                                                                                                                                                                cancer
                                                                                                                                                                                                                                    (first entry)
                                 97US-0041836
                                                  98WO-CA00346
                                                                                                     /product= "PCA3 protein variant 1"
2019..2024
/*tag= b
                                                                                                                                                                                              antigen cDNA splice variant 1; PCA3;
                                                                                                                                           Location/Qualifiers 379..534
                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                       cDNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC CDNA splice variant 1 sequence comprising of exons 1, 2, 3, 48 and CC 4b of the PCA3 gene. The PCA3 CDNA splice variant 1 sequence, CC isolated from a human primary prostatic tumour tissue cDNA library, CC was found in approximately 5% of the cDNA clones isolated. The CI invention claims for PCA3 CDNA variants and the proteins they encode. CT in invention also claims for antibodies against PCA3 protein. The CC antibodies are claimed to be useful for detecting PCA3 protein in CC immunoassay tests, for diagnosing, assessing and prognosing of prostatic cancer (PC). Antibodies, optionally coupled to a cytotoxin or radioisotope, and nucleic acids antisense to PCA3 CDNA are claimed to be useful for treating PC, while determining elevated levels of PCA3 (as RNA or protein) is useful for detecting PCA3 protein CC PCA3 (as RNA or protein) is useful for detecting PCA3 protein and the level of PCA3 expression allows correlation with the grade of tumour. PCA3 protein and its fragments are also claimed to be useful in vaccines for preventing PC; in drug screens for identifying corelation with the grade of the protein and its fragments are also claimed to be useful contractions pC; in drug screens for identifying the claim of the protein and its fragments are also claimed to be useful contractions pC in drug screens for identifying the protein and interactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 518;
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P-PSDB; W79736.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            studying protein-DNA interactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence represents the prostate cancer antigen (PCA3)
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                   9999agat-accacggggcaga-ggtcaggattctggccctgctgcctaa
                                                                                         g-ttcacaagacatgcaacaaacaaacatggaatactgtgatgacacgag--cagccaact
                                                                                                                                                                 aaatgaagtcacaaagtgagcattaccaatgagaggaaaacagacggagaaaatcttgatg
                                                                                                                                                                                                                                         aggat-ggcaggaaaacagatcctgttgtggatatttatttgaacgggattacagatttg
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ggggaggagataaccacggggcagagggtcaggattctggccctgctgctaa
                                                                        gcttcacaagacatgcaacaaacaaaatggaatactgtgatgacatgaggcagccaagct
                                                                                                                                                aaatgaagtcacaaagtgagcattaccaatgagaggaaaacagacgagaaaatcttgatg
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97.2%;
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Pred. No. 6.7e-131;
0; Mismatches 9;
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                                    595
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RESULT
V62430
                                  The present sequence represents the prostate cancer antigen (PCA3) C wild-type cDNA sequence comprising of exons 1, 2, 3, 4a-4d of the PCA3 gene. The invention claims for PCA3 cDNA variants and the C proteins they encode. The invention also claims for antibodies are claimed to be useful for C detecting PCA3 protein. The antibodies are claimed to be useful for C detecting PCA3 protein in immunoassay tests, for diagnosing, assessing C and prognosing of prostatic cancer (PC). Antibodies, optionally C coupled to a cytotoxin or radioisotope, and nucleic acids antisense C to PCA3 cDNA are claimed to be useful for treating PC, while determining C elevated levels of PCA3 (as RNA or protein) is useful for detecting a protein allows differentiation between malignant and benign PCA3 protein allows differentiation between malignant and benign PC prostatic disease, and the level of PCA3 expression allows correlation C with the grade of tumour. PCA3 protein and its fragments are also C claimed to be useful in vaccines for preventing PC; in drug screens for identifying specific (ant)agonists (potentially useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Prostate PC; ds.
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                       therapeutically) and for studying protein-DNA interactions
                                                                                                                                                                                                                                                                                      Claim 3; Fig 5B-5F; lllpp; English
                                                                                                                                                                                                                                                                                                              New nucleic acid encoding prostate cancer antigen prevention and treatment of prostatic cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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2041..2046
/*tag= c
2597..2602
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983..987
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "PCA3 protein"
                                                                                                                                                                                                                                                                                                                               for diagnosis
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Query Match
Best Local Similarity
Matches 518; Conserv

63.7%; 97.2%;

0

Score 457.2; DB 19 Pred. No. 8.9e-131; 0; Mismatches 9;

Indels

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Gaps

5.

DB 19;

Length 3582;

Sequence

3582

BP; 1052 A; 788

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         Claim la;
                                     New nucleic acid expressed at high level in prostatic tumor tissue encoded polypeptides, useful for treating cancer and screening for
                              therapeutic
                                                                                                                          (META-) METAGEN GES GENOMFORSCHUNG MBH.
                                                                                                                                              10-MAR-1998;
                                                                                                                                                                  10-MAR-1998;
                                                                                                                                                                                       16-SEP-1999
                                                                                                                                                                                                          DE19811193-A1
                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                Expressed sequence tag; EST; prostate tumon gene therapy; tissue specificity human; ss.
                                                                                                                                                                                                                                                                                 Human prostate cancer-associated EST
                                                                                                                                                                                                                                                                                                    08-DEC=1999 (first entry)
                                                                                                                                                                                                                                                                                                                                             233445 standard;
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DB; Y48243.
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Best Local
                                                                                                                                                                                                                                                                             renal disease; inflammation; allergy; Alzheimer's disease; schizophrenia; cognitive disorder; prostate disease; skeletal; cardiac; muscle disorder; pulmonary disorder; transplant rejection; osteoplast; osteoporosis; arthritis; malignancy; digestive; endocrine; infection; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                            gene therapy; diagnosis; cancer; tumour; neurodegenerative disorder; developmental abnormality; fetal deficiency; blood disorder; leukemia immune system disease; autoimmune disease; hepatic disease; lymphoma; and disease; leukemia immune system disease; autoimmune disease; hepatic disease; lymphoma; limmune system disease; lim
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No. 1e-79;
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aaaatggaatactgtgatgacatgaggcagccaagctggggaggagataaccacgggggca
                                                                                                       tgttgtggatatttatttgaacgggwttacagatttgaaatgaagtcacaaagtgagcat
                                                                                                                                                                                                                                                                     al Similarity
316; Conser
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A, Greene
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97US-0060833
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97US-0060839
97US-0060843
97US-0060843
97US-0060866
97US-0060866
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JM, Janat F,
Shi Y, Young
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95.8%;
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Lafleur
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14-JUL-1998;
23-SEP-1998;
23-SEP-1998;
15-JAN-1999;
15-JAN-1999;
                                                                                                                         The present invention describes isolated polypeptides, comprising an immunogenic portion of a prostate tumour protein (PTP). The polypeptides and polynucleotides encoding them have cytostatic activity and can be used in vaccines and in gene therapy. The polypeptides and polynucleotides encoding them, antigen presenting cells which express the polypeptides, antibodies against the polypeptides and vaccines comprising them can be used for inhibiting the development of prostate cancer in a patient. The polypeptides can be used to generate antibodies or anti-idiotypic antibodies for passive immuno therapy. A portion of the polynucleotides encoding the polypeptides can be used as a probe or composite the expression of the polypeptides. A06241 to A06691 and 182000 to 182020 represent sequences used in the exemplification of the
                                                                                             Sequence
                                                                                                                                                                                                                                                                 Claim 1; Page 192; 263pp;
                                                                                                                                                                                                                                                                                                  New polypeptide useful
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301
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           agcattaccaatgagaggaaaacagacgagaaaatcttgatgg-ttcacaaagacatgcaa 504
AGCATTACCAATGAGAGGAAAACAGACGAGAAAATCTTGATGGCTTCACAAGACATGCAA 242
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                                           Conservative
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                                                                                                                                                                                                                                                                                       immunogenic
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98US-0116134.
98US-0159812.
98US-0159822.
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99US-0232880.
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92.3%;
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                                        Pred. No. 2.2e

O; Mismatches
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state tumor
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                                                                                                                                                                              in vaccines for preventing PC; in drug screens for identifying specific (ant)agonists (potentially useful therapeutically) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                New nucleic acid encoding prostate cancer antigen prevention and treatment of prostatic cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 3; Fig 4; lllpp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prostate cancer antigen (PCA3) gene transcription start site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-568347/48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (DIAG-) DIAGNOCURE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-APR-1997;
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50 ggagatttgtgtgg-ctgcagccgagggagaccaggaagatctgcatggtgggaaggacc 108
                                                                                   Local
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                  1 ggagatttgtgttggtttgcagccgagggagaccaggaagatctgcatggtgggaaggacc 60
                                                                    l Similarity
73; Conserv
                                                                                                                                           123 BP;
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                                                                                                                                         41 A;
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                                                                                8.6%;
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RESULT 15

X05230/c

ID X05230 standard; DNA; 2689 BE

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DT 22-APR-1999 (first entry)
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N92768/c
ID N92768 standard; DNA; 9473
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                                                                                                                                      3782
                                                                                           3722 TGTCTATTGCATGATCCATC 3703
                                                                                                                                                                                3842
                                                                                                                                                                                                                                                                                                   The sequence characterises the clone HIV-D194, it starts with R/U5 region of the LTR and ends with the U5 region. The DNA can be used to raise Abs for serological detection, and polypeptides encoded by the sequence used
                                                                                                                                                                                                                                                                          Sequence 9473 BP;
                                                                                                                                                                                                                                                                                                                                                                New HIV-2 virus variant isolates - used to obtain prods. for identifying infections by {\rm HIV-2} or vaccines for protection against AIDS infections.
                                                                                                               671 ccacattttcatnatccacc 690
                                                                                                                                                                                       551 gagataccacggggcagaggtcaggattctggccctgctgcctaactgtgcgttatacca 610
                                                                                                                                                                                                                                                                                                in vaccination.
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                                                                                                                                               atcatttctatttctaccctcaaacaagctgtngaatatctgacttacggttcttntggc 670
                                                                                                                                                                          AATACTCTTACCCTGTCTCCCCTCTATCTGTTACATATCCTGCTTTTCCTTCTTTTGAC 3723
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                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                       Waigmann
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Adamski M;
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(first entry)

HIV-2 genomic DNA sequence

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CC The invention provides primer/probe sets for detecting HIV-1 or HIV-2 CC that comprise two primers and at least one probe. The primer/probe sets care useful to detect HIV (1.e. HIV-1 and HIV-2, either separately or CC are useful to detect HIV (1.e. HIV-1 and HIV-2, either separately or CC simultaneously) in biological samples using known nucleic acid conspilitication procedures e.g. PCR, reverse transcriptase (RT) PCR and CC especially oligonucleotide hybridisation PCR (OH PCR): HIV-1 and HIV-2 care different viruses each with several subtypes due to the highly CC are different viruses each with several subtypes due to the highly cCC it converts its genetic material (RNA) into DNA to allow it to insert its genetic information into the host and/or recombination of viral genomes CC from different HIV populations). The sequences are designed to detect all cc equences which are DNA or, sequences which are embedded within the HIV genome and are therefore RNA by RT-PCR. Sequences x05232 to x05253 crepresent specifically claimed primer and probe sequences present in ceight different primer/probe sets that are used for detecting HIV-1 and HIV-2. The present sequence represents HIV-1 genomic DNA sequence that can be used as a target sequence in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 5.0%;
Best Local Similarity 53.8%;
Matches 70; Conservative
                                                                                                                                           1698
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid primers and probes for detecting HIV 1 and HIV 2 - using known nucleic acid amplification procedures especially oligonucleotide hybridisation PCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 27-28; 35pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-095352/08
                                                                                                                                                                                                                                                                                                                       561 ggggcagaggtcaggattctggccctgctgcctaactgtgcgttataccaatcatttcta 620
                                                                     681 atnatccacc 690
                                                                                                                                                                                                                621
                                                                                                                                                                            tttctaccctcaaacagctgtngaatatctgacttacggttcttntggcccacattttc 680
                                                                                                                                                                                                                                                                                  GTGCCATTGCAAAGGCTTCTAATTCTGCTTGCTGATTGGTAGTTTGCTCTAATACTTTTA 1699
                                                                                                                                           CCCTGTCTCTCCCTCTATCTGTTATATATCCTGCTTTCCCTTCTTTTGACTGCCTATTGC 1639
AGGATCCATC 1629
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                                                                                                                                                                                                                                                                                                                                                                                                                      ; Score 35.8; DB; Pred. No. 0.5; 0; Mismatches
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